

Name: _____

Date: _____

PCW__09__22 Coordinate transformations v4

Question 1

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 9 \cdot f\left[\frac{x}{4} - 8\right] + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 2

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 6 \cdot (f[9(x - 8)] - 3)$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 3

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f\left[\frac{x-5}{9}\right]}{8} + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

PCW__09__22 Coordinate transformations v4

Question 4

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f\left[\frac{x}{8} + 7\right]}{6} - 9$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 5

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 2 \cdot f\left[\frac{x+7}{9}\right] - 4$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 6

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 7 \cdot (f[9x - 6] + 5)$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.